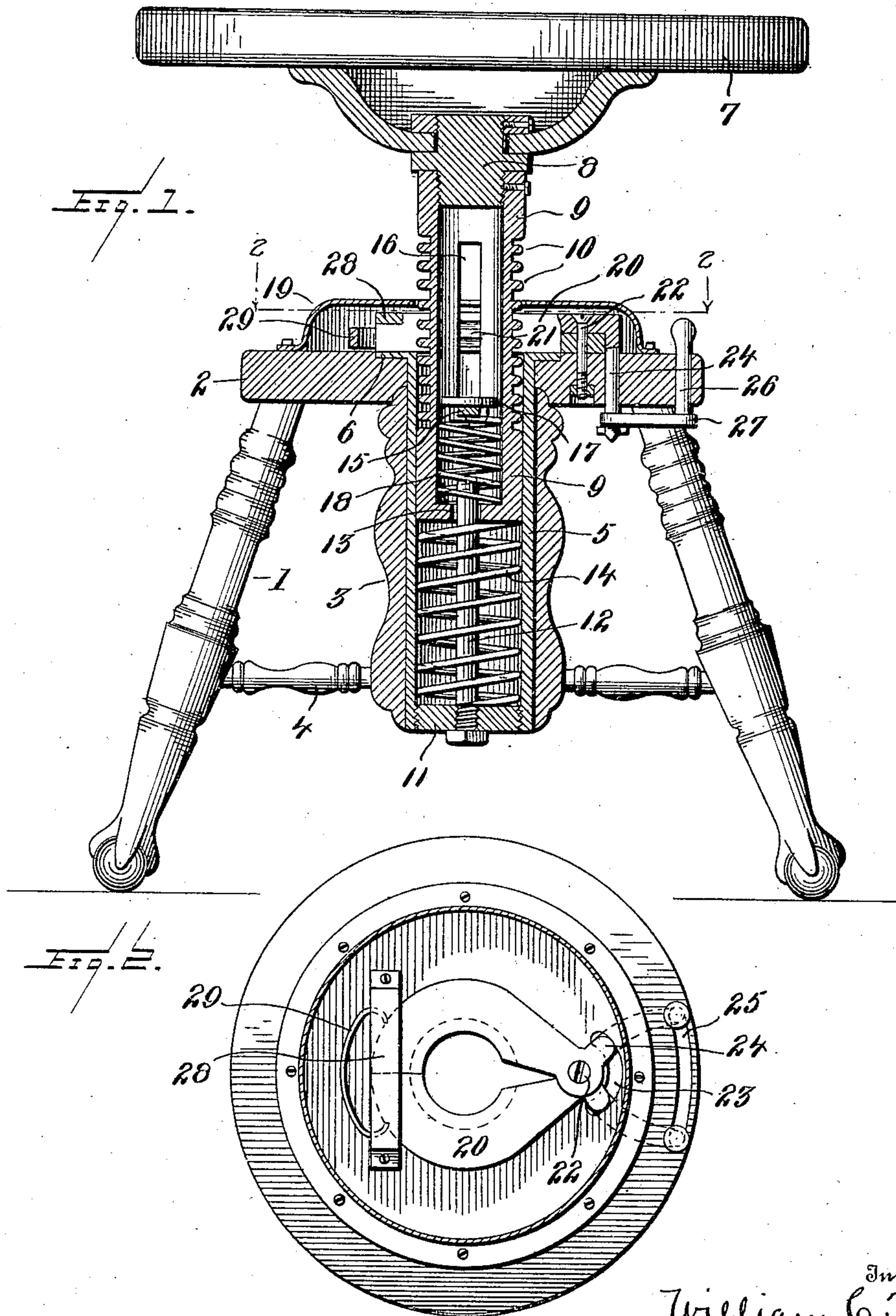


No. 869,777.

PATENTED OCT. 29, 1907.

W. C. HAHNE.  
ADJUSTABLE STOOL OR SEAT.  
APPLICATION FILED NOV. 20, 1906.

2 SHEETS—SHEET 1.



Witnesses

*M. F. Hoyle*  
*John Powers*

By

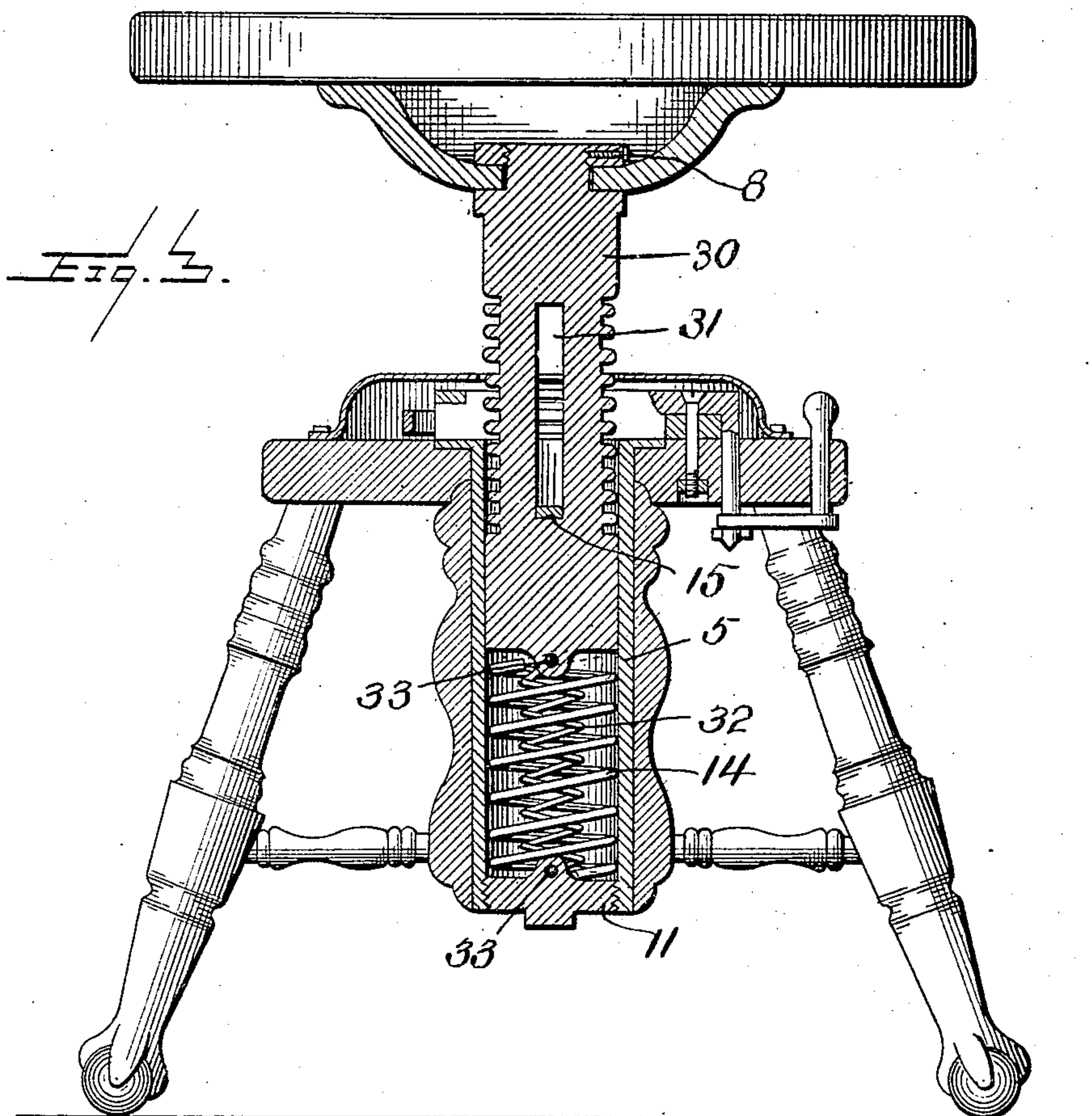
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2 SHEETS—SHEET 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM C. HAHNE, OF CHICAGO, ILLINOIS.

## ADJUSTABLE STOOL OR SEAT.

No. 869,777.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed November 20, 1906. Serial No. 344,207.

*To all whom it may concern:*

Be it known that WILLIAM C. HAHNE a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, has invented certain new and useful Improvements in Adjustable Stools or Seats, of which the following is a specification.

This invention relates to new and useful improvements in seats or stools and it particularly pertains to a seat designed for use as a piano stool.

The invention aims primarily to provide means for instantaneously moving the seat to any desired position in its support.

To this end the invention resides in a seat having a corrugated post with which a locking device engages and a spring for raising said seat upon the disengagement of said locking device.

It is a further object of the invention to provide a stool which may be lowered to any desired position by pressure, against the tension of said spring.

Still another object of the invention is to provide means for cushioning said spring and absorbing the consequent shocks and vibrations.

The detailed construction will appear in the course of the following description in which reference is had to the accompanying drawings forming a part of this specification, like numerals designating like parts throughout the several views, wherein,

Figure 1 is a central longitudinal section of a stool constructed in accordance with my invention. Fig. 2 is a horizontal section on the line 2—2 of Fig. 1, looking in the direction of the arrow, and Fig. 3 is a central longitudinal section of a slightly modified embodiment of the invention.

Referring specifically to the accompanying drawings, the numeral 1 designates the legs of the stool which at their upper ends support a base 2. Centrally depending from the base 2 is an ornamental cylindrical casing 3, which is connected with the legs 1 by horizontal braces 4. The base 2 is apertured centrally to permit the insertion therethrough of a barrel 5 which fits snugly within the casing 3 and depends from said base by means of a laterally extending annular flange 6 embedded into and flush with the surface of the base 2. The stool or seat 7 has swiveled connection by means of a lock nut coupling 8 with a centrally depending hollow post 9 provided on its rounded surface with annular sections 10 arranged in spaced parallel relation. The post 9 fits snugly in the barrel 5 and has vertical movement therein. Said barrel is closed at its lower end by a disk 11 threaded thereinto and carrying a centrally located upwardly extending post 12 which projects loosely through an opening 13 provided in the base of the post 9 and serves as a guide for said post in its vertical movement. Surrounding the post 12 is an expansive coil spring 14 bearing with one end against the disk 11 and with its other end against the post 9.

The post 9 is provided with diametrically opposed co-extensive aligned longitudinal slots for the reception therethrough of a transverse pin 15 fixed to the sides of the barrel 5. The pin 15 coacts with the slots 16 to form a guide and in this function assists the post 12. Within the post 9 a disk 17 is secured to the pin 15 said disk serving as a fixed stop for a retractile coil cushioning spring 18 disposed within the lower portion of the post 9 and bearing against said disk 17 and said post. It will be observed that the post 12 serves to center the post 9 and the springs 14 and 18 in order that the force of said springs may be equalized whereby to prevent any binding of the parts.

The base 2 is provided with a centrally apertured ornamental hood 19, preferably of metal which serves as a concealing cover and protector for the locking means for post 9, said locking means being carried upon said base. A preferred embodiment of the locking means is shown, which comprises semi-annular jaws 20 having corrugated inner surfaces 21 and pivotally united by a bolt or pin 22 carried by the base 2. Said base rearwardly of said pivot is formed with a curved slotted opening 23 therethrough, said opening describing a chord with the pivot 22 as a center. The jaws 20 are provided with angularly disposed depending extensions 24 which project through and beyond and work in the slot 23. The base 2 is also provided adjacent to its edge with a curved slot 25, through which are received the vertical portions 26 of L shaped handles, the horizontal portions 27 of said handles being rigidly connected by any suitable means with the projecting lower ends of the extensions 24. For the purpose of holding the jaws 20 against play a bridge or guide piece 28 is provided which is carried by the base 2 and overlies the confronting ends of said jaws. The jaws 20 are normally held closed and in engagement with the corrugations 10 by a bow spring 29 having its ends suitably engaged therewith.

In practical use the parts are disposed as shown in Fig. 1. Assuming that it is desired to move the seat 7, the handles 26 are moved together, thereby opening the jaws 20 against the tension of the spring 29. The spring 14 then acts to raise the post 9 to any desired height at which position said post is held by releasing the handles 26 and permitting the jaws 20 to be snapped together by the spring 29 in order to engage the corrugations 21 with the corrugations 10. When the post 9 and seat 7 are raised in the manner described, the spring 18 serves to cushion the action of the spring 14 whereby to absorb vibrations and prevent the too sudden movement of the post which would cause the breakage or displacement of parts. The seat is lowered by releasing the jaws 20 in the manner described and by depressing said seat to the desired position against the tension of the spring 14.

In the modified embodiment of the invention illustrated in Fig. 3, instead of the hollow post 9 I employ a



solid post 30 which is formed with a vertical slot 31 therethrough corresponding in function to the slot 16 previously described. The pin 15 provided in the barrel 5 which surrounds the post 30 projects through the slot 31 and serves to limit the vertical movement of said post in either direction in the manner described. In this modification the post 12 is eliminated and the spring 14 bears with its upper and lower ends against the disk 11 and the lower end of the post 30. In lieu of the cushioning spring 18 shown in Fig. 1, I employ a retractile cushioning spring 32 which is disposed within the spring 14 and surrounded by the coils thereof. The spring 32 at its upper and lower ends has positive connection with apertured ears 33 provided upon the disk 11 and the lower end of the post 30. The rest of the construction is as described in connection with the disclosure of Figs. 1 and 2. In using the device shown in Fig. 3, the actuation is in the same manner as has been set forth. It will be apparent that the retractile influence of the spring 32 will cushion the expansive influence of the spring 14.

It is obvious that while my invention is shown as applied to a piano stool, it is equally as advantageously applicable to any seat having a vertical adjustment.

While the elements herein shown and described are

well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of my invention as defined in the appended claims.

Having fully described my invention I claim:—

1. In a stool of the type set forth, a support comprising a base carried upon suitable legs, a cylinder inserted through an aperture in said base and depending therefrom, a post carrying a seat movable in said cylinder, a spring secured to said cylinder and adapted to raise said post and a second spring secured to said post and adapted to cushion the action of said first-named spring, substantially as described.

2. In a stool of the type set forth, a support carrying a base plate, a cylinder inserted through an aperture therein and depending therefrom, a corrugated post carrying a seat movable within said cylinder, a spring secured to said cylinder and adapted to raise said post, a second spring weaker than the first-named spring and so placed as to resist the action of the first-named spring and means for locking said post in any desired position, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM C. HAHNE.

Witnesses:

JOHN W. BRITTON,  
WOLF WHEELER.